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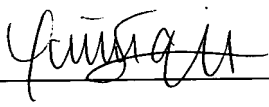
That I am knowledgeable in the English language and in the language in which the below identified international application was filed, and that I believe the English translation of the international application No. PCT/JP99/00697 is a true and complete translation of the above identified international application as filed.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Date

August 6, 2001

Full name of the translator Yumi HIRANO

Signature of the translator 

Post Office Address Kitahama TNK Building 7-1, Dosho-machi
1-chome, Chuo-ku, Osaka-shi, Osaka 541-0045
Japan

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-256779

(43)Date of publication of application : 13.09.1994

(51)Int.Cl.

C10L 3/10
B01D 53/34
B01J 20/02

(21)Application number : 05-325935

(71)Applicant : OSAKA GAS CO LTD

(22)Date of filing : 29.11.1993

(72)Inventor : MASUDA MASATAKA
OKADA OSAMU
TABATA TAKESHI
TAKAMI SUSUMU

(30)Priority

Priority number : 04341235 Priority date : 27.11.1992 Priority country : JP

(54) METHOD FOR DESULFURIZING TOWN GAS

(57)Abstract:

PURPOSE: To stably and readily obtain a highly desulfurized town gas with a small amount of a desulfurizing agent for a long period by desulfurizing the town gas without containing hydrogen gas with the specific desulfurizing agent while adding the hydrogen to the town gas.

CONSTITUTION: Hydrogen in an amount of preferably 1-5% is added to a town gas with containing the hydrogen gas and the town gas is simultaneously desulfurized with a copper zinc-based desulfurizing agent prepared by a coprecipitation method to desulfurize the town gas. A Cu-Zn-based desulfurizing agent, etc., obtained by mixing an aqueous solution containing a copper compound and a zinc compound with an aqueous solution of an alkaline substance, forming a precipitate, then washing the precipitate with water, filtering and drying the resultant precipitate, burning the dried precipitate at 270-400°C and further

reducing the burned substance with hydrogen is preferred as the desulfurizing agent. The desulfurization is usually carried out by passing the town gas and hydrogen through a desulfurizing tube filled with the desulfurizing agent. Furthermore, the town gas is preferably preheated with a heater, etc., and desulfurized at 250-300°C.

LEGAL STATUS

[Date of request for examination] 06.11.1998

[Date of sending the examiner's decision of rejection] 24.10.2000

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3242514

[Date of registration] 19.10.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

 CLAIMS

[Claim(s)]

[Claim 1] The desulfurization method of the town gas characterized by desulfurizing using the copper-zinc system devulcanizing agent which added hydrogen to the town gas which does not contain hydrogen gas, and was prepared by the coprecipitation method.

[Claim 2] The desulfurization method of the town gas according to claim 1 which carries out addition of the hydrogen 0.01 to 10% (capacity %) at town gas.

[Claim 3] The desulfurization method of town gas according to claim 1 or 2 that a copper-zinc system devulcanizing agent is a devulcanizing agent obtained by carrying out the hydrogen reduction of copper-oxide-zinc-oxide mixture or the copper-oxide-zinc-oxide-aluminum-oxide mixture.

[Claim 4] The desulfurization method of town gas given in either of the claims 1-3 which desulfurizes the sulfur content in town gas to 5 or less ppb.

[Translation done.]